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(54) Title: ADSORBENT COMPOSITION, A DEVICE AND A METHOD FOR DECONTAMINATING WATER CONTAINING PESTICIDES

(57) Abstract: This invention relates to novel adsorbent compositions for adsorbing pesticides like chlorpyrifos and malathion. This composition consists of nanoparticles of gold/silver supported on activated alumina or magnesia in powder or other forms. This invention includes a device and a method for decontaminating water contaminated with pesticides. This device consists of a housing provided with an inlet and an outlet. The housing is loaded with nanoparticles of gold/silver supported on activated magnesia. Contaminated water is allowed to pass through the housing while pesticides are adsorbed by the composition. Decontaminated water flows out through the outlet.



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